

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **10 X Elution Buffer**

Product #: PN 310 00 40

Synonyms: --

CAS Number: Not applicable to blends.

Company Identification: **Argylla Technologies LLC**

1500 E 17th St.

Tuscan, AZ 85719 USA

For product information : 800-234-6642 or 1-520-545-9270

For emergencies – Chemtrec: 1-202-483-7616

2. COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>Hazardous</u>	<u>OSHA PEL (ppm)</u>	<u>ACGIH TLV (ppm)</u>
None			NO	N/A	N/A

COMPOSITION COMMENT: Note: As Supplied this product is not a “hazardous chemical” as regulated under the OSHA communication Standard 29CFR 1910.1200.

California Prop 65: This product does not contain any ingredients, above the safe harbor limits, which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

HAZARDS DISCLOSURE: This product contains NO known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 except as listed above. As defined under Sara 311 and 312, this product contains NO known hazardous materials.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

KEEP AWAY FROM CHILDREN. DO NOT INGEST. AVOID SKIN CONTACT. Wash hands after use.
This product as supplied and used as recommended is not a “hazardous chemical” as regulated under the OSHA communication Standard 29CFR 1910.1200.

HMIS/NFPA Rating:

Health - 1, Flammability - 0, Reactivity – 0, Personal Protection Index - B

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, Protective Equipment: N/A.

POTENTIAL HEALTH EFFECTS

INHALATION: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

INGESTION: Large quantities can produce gastrointestinal irritation and vomiting. May produce weakness and circulatory problems. May affect heart. In severe cases, ingestion may be fatal.

SKIN CONTACT: Contact may cause irritation or rash, particularly with moist skin. Avoid Contact with Skin.

MATERIAL SAFETY DATA SHEET

EYE CONTACT: A possible eye irritant. Redness, tearing, or pain may occur.

CHRONIC EXPOSURE: No information found.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known or reported.

4. FIRST AID MEASURES

INHALATION FIRST AID: If a respiratory problem develops. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

SKIN CONTACT FIRST AID: If rash or irritation develops get medical attention.

EYE CONTACT FIRST AID: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

INGESTION FIRST AID: In the event of an overdose, induce vomiting. Give large amounts of water. Never give anything by mouth to an unconscious person. Get medical attention.

STATEMENT OF PRACTICAL TREATMENT: Always have plenty of water available for first aid. Get medical attention if any symptoms develop or persist.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not Flammable

AUTO IGNITION TEMPERATURE: N/A

FLASH POINT: N/A

FLAMMABLE LIMITS IN AIR, % by Volume: N/A

EXTINGUISHING MEDIA: Water, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep exposed material cool.

FIRE & EXPLOSION HAZARDS: Combustion/fires produce smoke consisting of carbon dioxide, carbon monoxide, and other potentially toxic gases.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Physical form requires no obvious personal protective equipment when cleaning up spills. Wear gloves.

SPILLS PROCEDURE: Collect material for reuse or disposal.

ENVIRONMENTAL PRECAUTIONS: Not applicable.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE CONDITIONS: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

SHELF LIFE: See Label on packaging.

HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: See Section 2 above.

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres..

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

COLOR: colorless

ODOR: None

BOILING POINT: 212°F (100°C)

SOLUBILITY IN WATER: Slowly soluble in water

SPECIFIC GRAVITY: 1.0 g/ml

MELTING/FREEZING POINT: 32°F (0°C)

Evaporation Rate: Not applicable

AUTO IGNITION TEMPERATURE: N/A

FLASH POINT: N/A

pH: 9.0

VOC = None

VAPOR PRESSURE: @ 72°F Not applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: No information found.

POLYMERIZATION: Polymerization cannot occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Acids and oxidizers.

DECOMPOSITION: Heating to decomposition may produce nitrates and other toxic gases.

11. TOXICOLOGICAL INFORMATION

Toxicity: There are no toxicological data for this material. Adverse health effects are not known nor are expected under normal use.

Local effects: None known or reported.

Sensitization: Not known to occur with this material.

Long term toxicity: Adverse health effects are not known nor are expected under normal use.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: No information found.

ENVIRONMENTAL TOXICITY: No information found.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Whatever cannot be saved for recovery or recycling should be handled as a non hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of material in accordance with federal, state and local requirements.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O., IATA)

PRODUCT LABEL: 10 X Elution Buffer

UN NUMBER: Non-Regulated material

PACKAGE CLASS: NA

D.O.T. HAZARD CLASS: NA

D.O.T. PROPER SHIPPING NAME: Not regulated

PACKING GROUP: NA

PRODUCT RQ (LBS): None

15. REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

Chemical Weapons Convention: No **TSCA 12(b):** No **CDTA:** No

SARA 311/312: Acute: YES Chronic: YES Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

16. OTHER INFORMATION

Label Hazard Warning:

CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label First Aid:

If swallowed, give milk or water as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If irritation develops call a physician. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Prepared By: Donato Polignone (MSDS Authoring Services)

Approved By: Argylla Technologies, Environmental Health and Safety Department

Approval Date: May 23, 2008

Supersedes Date: New

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Argylla Technologies LLC. The data on this sheet are related only to the specific material designated herein. Argylla Technologies LLC assumes no legal responsibility for use or reliance upon these data.

END OF MSDS